

170 175 180
 Asp Asp Arg Tyr Ile Cys Asp Arg Phe Tyr Pro Asn Asp Leu Trp
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 Val Val Val Phe Gln Phe Gln His Ile Met Val Gly Leu Ile Leu
 200 205 210
 Pro Gly Ile Val Ile Leu Ser Cys Tyr Cys Ile Ile Ile Ser Lys
 215 220 225
 Leu Ser His Ser Lys Gly His Gln Lys Arg Lys Ala Leu Lys Thr
 230 235 240
 Thr Val Ile Leu Ile Leu Ala Phe Phe Ala Cys Trp Leu Pro Tyr
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 Tyr Ile Gly Ile Ser Ile Asp Ser Phe Ile Leu Leu Glu Ile Ile
 260 265 270
 Lys Gln Gly Cys Glu Phe Glu Asn Thr Val His Lys Trp Ile Ser
 275 280 285
 Ile Thr Glu Ala Leu Ala Phe Phe His Cys Cys Leu Asn Pro Ile
 290 295 300
 Leu Tyr Ala Phe Leu Gly Ala Lys Phe Lys Thr Ser Ala Gln His
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 <213> Mus

<220>
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 <222> (1)...(1059)

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 tcc atc atc ttc tta act ggc att gtg ggc aat gga ttg gtc atc 180
 ctg gtc atg ggt tac cag aag aaa ctg aga agc atg acg gac aag 225
 tac agg ctg cac ctg tca gtg gcc gac ctc ctc ttt gtc atc acg 270
 ctt ccc ttc tgg gca gtt gat gcc gtg gca aac tgg tac ttt ggg 315
 aac ttc cta tgc aag gca gtc cat gtc atc tac aca gtc aac ctc 360
 tac agc agt gtc ctc atc ctg gcc ttc atc agt ctg gac cgc tac 405

ctg gcc atc gtc cac gcc acc aac agt cag agg cca agg aag ctg 450
 ttg gct gaa aag gtg gtc tat gtt ggc gtc tgg atc cct gcc ctc 495
 ctg ctg act att ccc gac ttc atc ttt gcc aac gtc agt gag gca 540
 gat gac aga tat atc tgt gac cgc ttc tac ccc aat gac ttg tgg 585
 gtg gtt gtg ttc cag ttt cag cac atc atg gtt ggc ctt atc ctg 630
 cct ggt att gtc atc ctg tcc tgc tat tgc att atc atc tcc aag 675
 ctg tca cac tcc aag ggc cac cag aag cgc aag gcc ctc aag acc 720
 aca gtc atc ctc atc ctg gct ttc ttc gcc tgt tgg ctg cct tac 765
 tac att ggg atc agc atc gac tcc ttc atc ctc ctg gaa atc atc 810
 aag caa ggg tgt gag ttt gag aac act gtg cac aag tgg att tcc 855
 atc acc gag gcc cta gct ttc ttc cac tgt tgt ctg aac ccc atc 900
 ctc tat gct ttc ctt gga gcc aaa ttt aaa acc tct gcc cag cac 945
 gca ctc acc tct gtg agc aga ggg tcc agc ctc aag atc ctc tcc 990
 aaa gga aag cga ggt gga cat tca tct gtt tcc act gag tct gag 1035
 tct tca agt ttt cac tcc agc taa cacagatgta aaagactttt ttttat 1085
 acgataaata actttttttt aagttacaca tttttcagat ataaaagact gaccaatatt 1145
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 aattgactta tttatataaa ttttttttgt ttcattattga tgttgttcta ggcaggacct 1265
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1588

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 <212> PRT
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 35 40 45
 Ile Tyr Phe Ile Ile Phe Leu Thr Gly Ile Val Gly Asn Gly Leu
 50 55 60
 Val Ile Leu Val Met Gly Tyr Gln Lys Lys Leu Arg Ser Met Thr
 65 70 75
 Asp Lys Tyr Arg Leu His Leu Ser Val Ala Asp Leu Leu Phe Val
 80 85 90
 Ile Thr Leu Pro Phe Trp Ala Val Asp Ala Met ala Asp Trp Tyr
 95 100 105

subs
Bl
Cont'd

5

Phe Gly Lys Phe Leu Cys Lys Ala Val His Ile Ile Tyr Thr Val 110 115 120
 Asn Leu Tyr Ser Ser Val Leu Ile Leu Ala Phe Ile Ser Leu Asp 125 130 135
 Arg Tyr Leu Ala Ile Val His Ala Thr Asn Ser Gln Arg Pro Arg 140 145 150
 Lys Leu Leu Ala Glu Lys Ala Val Tyr Val Gly Val Trp Ile Pro 155 160 165
 Ala Leu Leu Leu Thr Ile Pro Asp Phe Ile Phe Ala Asp Val Ser 170 175 180
 Gln Gly Asp Ile Ser Gln Gly Asp Asp Arg Tyr Ile Cys Asp Arg 185 190 195
 Leu Tyr Pro Asp Ser Leu Trp Met Val Val Phe Gln Phe Gln His 200 205 210
 Ile Met Val Gly Leu Ile Leu Pro Gly Ile Val Ile Leu Ser Cys 215 220 225
 Tyr Cys Ile Ile Ile Ser Lys Leu Ser His Ser Lys Gly His Gln 230 235 240
 Lys Arg Lys Ala Leu Lys Thr Thr Val Ile Leu Ile Leu Ala Phe 245 250 255
 Phe Ala Cys Trp Leu Pro Tyr Tyr Val Gly Ile Ser Ile Asp Ser 260 265 270
 Phe Ile Leu Leu Gly Val Ile Lys Gln Gly Cys Asp Phe Glu Ser 275 280 285
 Ile Val His Lys Trp Ile Ser Ile Thr Glu Ala Leu Ala Phe Phe 290 295 300
 His Cys Cys Leu Asn Pro Ile Leu Tyr Ala Phe Leu Gly Ala Lys 305 310 315
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 Ser Ser Leu Lys Ile Leu Ser Lys Gly Lys Arg Gly Gly His Ser 335 340 345
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 ttc cgg gat gaa aac gtc cat ttc aat agg atc ttc ctg ccc acc 135
 atc tac ttc atc atc ttc ttg act ggc ata gtc ggc aat gga ttg 180
 gtg atc ctg gtc atg ggt tac cag aag aag cta agg agc atg acg 225
 gac aag tac cgg ctg cac ctg tca gtg gct gac ctc ctc ttt gtc 270
 atc aca ctc ccc ttc tgg gca gtt gat gcc atg gct gac tgg tac 315
 ttt ggg aaa ttt ttg tgt aag gct gtc cat atc atc tac act gtc 360
 aac ctc tac agc agc gtt ctc atc ctg gcc ttc atc agc ctg gac 405
 cgg tac ctc gcc att gtc cac gcc acc aac agt caa agg cca agg 450
 aaa ctg ctg gct gaa aag gca gtc tat gtg ggc gtc tgg atc cca 495
 gcc ctc ctc ctg act ata cct gac ttc atc ttt gcc gac gtc agc 540
 cag ggg gac atc agt cag ggg gat gac agg tac atc tgt gac cgc 585
 ctt tac ccc gat agc ctg tgg atg gtg gtg ttt caa ttc cag cat 630
 ata atg gtg ggt ctc atc ctg ccc ggc atc gtc atc ctc tcc tgt 675
 tac tgc atc atc atc tct aag ctg tca cac tcc aag ggc cac cag 720
 aag cgc aag gcc ctc aag acg aca gtc atc ctc atc cta gct ttc 765
 ttt gcc tgc tgg ctg cca tat tat gtg ggg atc agc atc gac tcc 810
 ttc atc ctt ttg gga gtc atc aag caa gga tgt gac ttc gag agc 855
 att gtg cac aag tgg atc tcc atc aca gag gcc ctc gcc ttc ttc 900
 cac tgt tgc ctg aac ccc atc ctc tat gcc ttc ctc ggg gcc aag 945
 ttc aaa agc tct gcc cag cat gca ctc aac tcc atg agc aga ggc 990
 tcc agc ctc aag atc ctt tcc aaa gga aag cgg ggt gga cac tct 1035
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1758

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<211> 89

<212> PRT

<213> Artificial Sequence

<223> Ligand peptide

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				20						25					30
Pro	Cys	Arg	Phe	Phe	Glu	Ser	His	Val	Ala	Arg	Ala	Asn	Val	Lys	
				35						40					45
His	Leu	Lys	Ile	Leu	Asn	Thr	Pro	Asn	Cys	Ala	Leu	Gln	Ile	Val	
				50						55					60
Ala	Arg	Leu	Lys	Asn	Asn	Asn	Arg	Gln	Val	Cys	Ile	Asp	Pro	Lys	
				65						70					75
Leu	Lys	Trp	Ile	Gln	Glu	Tyr	Leu	Glu	Lys	Ala	Leu	Asn	Lys		
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<211> 2244

<212> DNA

<213> Mus

<220>

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<222> (471)...(743)

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 cgccgctccc ctccagctcg cctgcgctc tcaactctcg tcagccgcat tgcccgctcg 420
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 ctc tgc ctc agc gac ggg aag ccc gtc agc ctg agc tac aga tgc 563
 cca tgc cga ttc ttc gaa agc cat gtt gcc aga gcc aac gtc aag 608
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 gcc cgg ctg aag aac aac aac aga caa gtg tgc att gac ccg aag 698
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<210> 7

<211> 89

<212> PRT

<213> Artificial Sequence

<223> Ligand peptide

<400> 7

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Pro Cys Arg Phe Phe Glu Ser His Ile Ala Arg Ala Asn Val Lys	
	35 40 45
His Leu Lys Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val	
	50 55 60
Ala Arg Leu Lys Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys	
	65 70 75
Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn Lys	
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<211> 1781

<212> DNA

<213> Mua

<220>

<221> CDS

<222> (82)...(351)

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<400> 8

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ctc tgc atc agt gac ggt aaa cca gtc agc ctg agc tac cga tgc 171
ccc tgc cgg ttc ttc gag agc cac atc gcc aga gcc aac gtc aag 216
cat ctg aaa atc ctc aac act cca aac tgt gcc ctt cag att gtt 261
gca cgg ctg aag aac aac aac aga caa gtg tgc att gac ccg aaa 306
tta aag tgg atc caa gag tac ctg gag aaa gct tta aac aag taa 351
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<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> added peptide

<400> 9

Arg Phe Lys Met

<210>10

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> added peptide

<400> 10

Arg Leu Lys Met

<210> 11

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> primer

<400> 11

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<210> 12

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 12

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